

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

22. (previously presented) An isolated polynucleotide comprising:

(a) a nucleotide sequence encoding a polypeptide having ammonium transporter activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:4 have at least 80% sequence identity based on the Clustal alignment method, or

(b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.

23. (previously presented) The polynucleotide of Claim 22 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:4 have at least 90% sequence identity based on the Clustal alignment method.

24. (previously presented) The polynucleotide of Claim 22 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:4 have at least 95% sequence identity based on the Clustal alignment method.

25. (previously presented) The polynucleotide of Claim 22 wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:4.

26. (previously presented) The polynucleotide of claim 22 wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID NO:3.

27. (previously presented) A vector comprising the polynucleotide of Claim 22.

28. (previously presented) A recombinant DNA construct comprising the polynucleotide of Claim 22 operably linked to a regulatory sequence.

29. (previously presented) A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 22.

30. (previously presented) A cell comprising the recombinant DNA construct of Claim 28.

31. (previously presented) A method for producing a plant comprising transforming a plant cell with the polynucleotide of Claim 22 and regenerating a plant from the transformed plant cell.

32. (previously presented) A plant comprising the recombinant DNA construct of Claim 28.

33. (previously presented) A seed comprising the recombinant DNA construct of Claim 28.

34. (cancelled)

35. (cancelled)

36. (new) A method for isolating a polypeptide having ammonium transporter activity comprising isolating the polypeptide from a cell or culture medium of the cell, wherein the cell comprises a recombinant DNA construct comprising the polynucleotide of Claim 22 operably linked to at least one regulatory sequence.